

Title (en)
Titration simulation system and method.

Title (de)
System und Methode zur Simulation der Titration.

Title (fr)
Système et méthode de simulation de la titration.

Publication
EP 0684476 A1 19951129 (EN)

Application
EP 95107133 A 19950511

Priority
US 25024694 A 19940527

Abstract (en)
A method and system achieving the results of a conventional titration without the need to chemically dilute a sample. Such a result is accomplished by providing a plurality of calibration standards, each containing a different known concentration of a visualizable material. The visualizable material contained within each calibration standard is then visualized, the parameters of the visualization forming a setting. The visualization is then altered by adjusting at least one parameter of the visualization until the point where the visualizable material within each calibration standard can no longer be visualized within the solution. The visualizable material within a sample solution having an unknown concentration of the visualizable material is then visualized using settings corresponding to the plurality of calibration standards to generate a number of modified visualizations, each modified visualization corresponding to the concentration of the standard to which it relates. The modified visualization at which point the visualizable material can no longer be visualized is then correlated with the corresponding concentration, to determine the titration of the sample solution.

IPC 1-7
G01N 33/58; **G01N 21/79**; **G01N 21/64**

IPC 8 full level
G01N 31/16 (2006.01); **G01N 21/64** (2006.01); **G01N 21/78** (2006.01); **G01N 33/53** (2006.01); **G01N 33/536** (2006.01)

CPC (source: EP US)
G01N 21/6458 (2013.01 - EP US); **G01N 21/83** (2013.01 - EP US)

Citation (search report)
• [A] EP 0017909 A2 19801029 - BEHRINGWERKE AG [DE]
• [A] US 4528267 A 19850709 - CALENOFF EMANUEL [US], et al
• [A] CA 2105727 A1 19940324 - NALCO CHEMICAL CO [US]

Cited by
CN109358056A; KR20210149435A

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT

DOCDB simple family (publication)
EP 0684476 A1 19951129; CA 2148430 A1 19951128; JP 2714542 B2 19980216; JP H0854341 A 19960227; US 5528521 A 19960618

DOCDB simple family (application)
EP 95107133 A 19950511; CA 2148430 A 19950502; JP 12848595 A 19950526; US 25024694 A 19940527